## Use Attainability Analysis

for

WBID 1264 East Branch

Submitted by Missouri Department of Natural Resources Staff

To Missouri Department of Natural Resources Water Protection Program

RECEIVED

# 2005 JUN 30 PM 3: 45 WATER PROTECTION PROGRAM

### Field Data Sheets for Recreational Use Stream Surveys

#### Data Sheet A - Water Body Identification

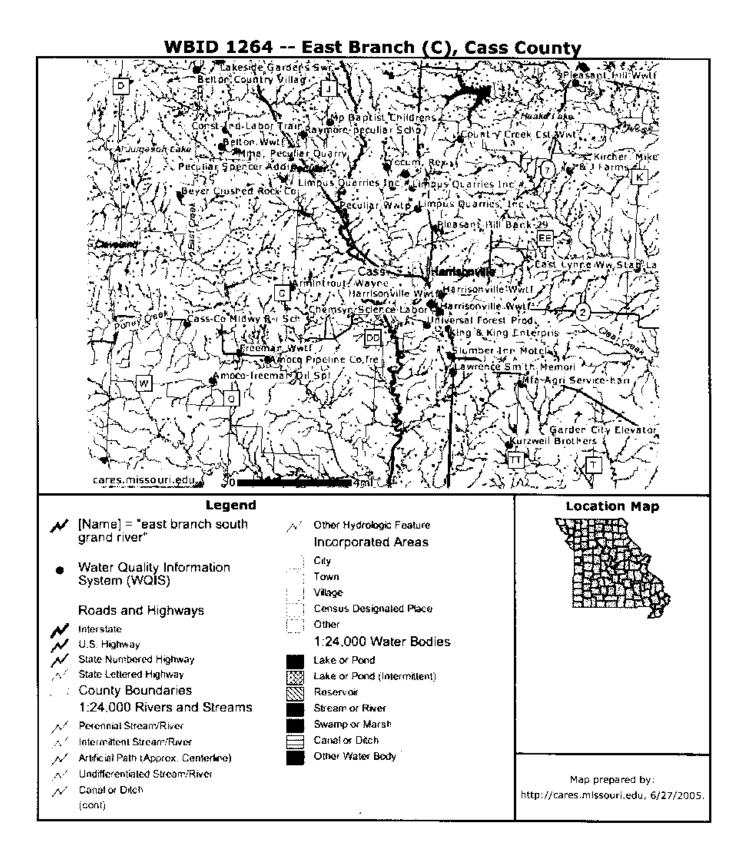
Water Body Name: (from USGS 7.5' quad) East Branch South Grand River
8-digit HUC: 10 290108
Missouri WBID #: 1264
County: Cass County
Upstream Legal Description: East Branch + 195#
Downstream Legal Description: East Branch + 307#
Upstream Coordinates: (UGS 84, ddd.ddddd) N. 38, 76689 W. 094, 42530
Downstream Coordinates: (UGS 84, ddd.ddddd) N. 38, 56042 W. 694. 39/0/
Discharger Facility Name(s): He crison wille WUTP Pleasant Hill Bank - 291 WW
Discharger Permit Number(s): MOCOZ8070 MOCIZO 723
Number of Sites Evaluated: 6
Name of Surveyor and Telephone Number: Michael Cunning ham 186-3 816-622-7016
Organization: MDNR /HORO
Position: E.S. 1

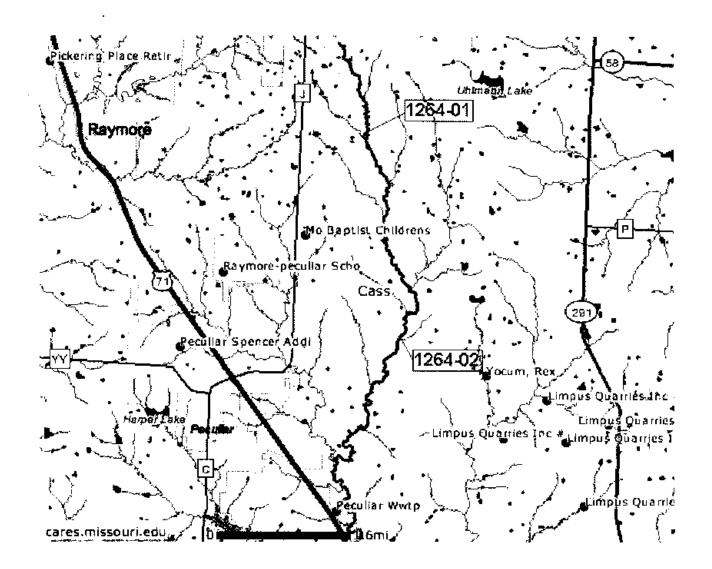
I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

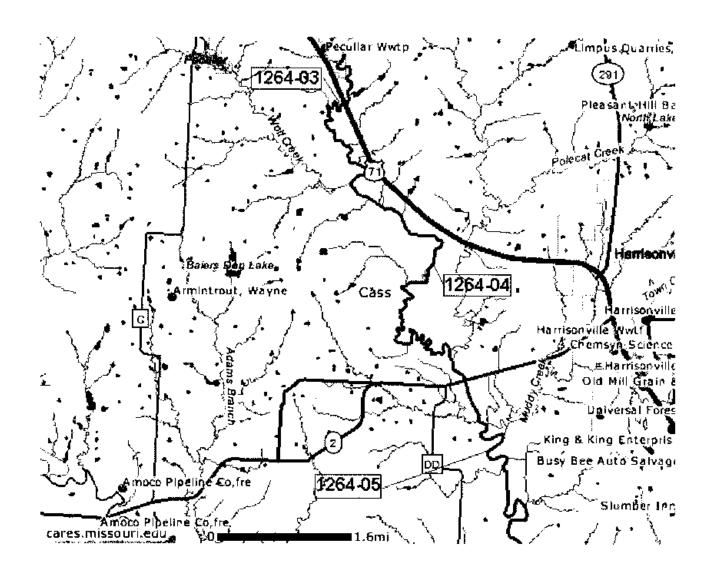
Signed:

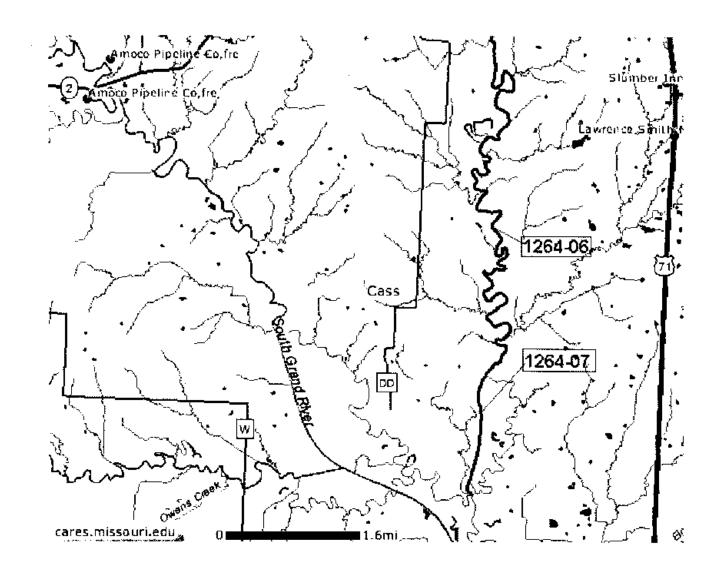
Date

e: 6/2









#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 3	<del>321-</del> 1264		Site Location D	Description: O		
Site GPS Coordinates:	N. 38 7668	50	East Ba	unch + 195th		
Date & Time: 6/20	1/05@09:	00			Pleasant Will Rank-25	
·	ningham		Facility Name: Harrisonville worf, Itasant Hill Bank-2.  Permit Number: MO 002 8070, MO0120723  Weather Conditions for Past 7 days: Hot + Humid			
Current Weather Condi		lear-	Weather Condit	tions for Past 7 days:	EU LES	
Photo Ids: Upstream:	, Z, 3 Dov	vnstream; 4	5 6 Othe		Tripology CX	
es Observed*:	<del></del>	<b>-</b>				
Swimming	☐ Skin diving	CI scr	IID A. Zivina			
			UBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	☐ Bos	ating	☐ Wading	Rafting	
☐ Hunting	☐ Trapping	Fish		None of the above	☐ Other:	
Document of the second	oo, or marradus ro	ream, toqu	ency of use, photo	-documentation of evidence	ot recreational uses, etc.	
rrounding Condition		·		uses. Attach photos of evider		
rrounding Condition		promote or imp				
rrounding Conditions of interest.)	US*: (Mark all that p	promote or imp	pede recreational unservation lands	uses. Attach photos of evidence.  Urban areas  Nature trails	Campgrounds	
rrounding Conditions of interest.)	■S*: (Mark all that p	promote or imp	pede recreational unservation lands	uses. Attach photos of evide:	Campgrounds	
rrounding Conditions of interest.)  City/county parks  Boating accesses  No trespass sign	ns*: (Mark all that p  □ Playgrounds □ State parks Fence	Dromote or imp	pede recreational unservation lands	uses. Attach photos of evidence.  Urban areas  Nature trails	Campgrounds	
rrounding Conditions of interest.)  City/county parks  Boating accesses  No trespass sign	ns*: (Mark all that p  □ Playgrounds □ State parks Fence	D MDC con  □ National	pede recreational unservation lands	uses. Attach photos of evidence.  Urban areas  Nature trails	Campgrounds ☐ Stairs/walkway	
rrounding Conditions of interest.)  City/county parks Boating accesses No trespass sign	□ Playgrounds □ State parks Fence	Domote or imp  MDC con  National	pede recreational unservation lands forests	Urban areas  □ Nature trails  Other:	Campgrounds	

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

### 1264 Page Two – Data Sheet B for WBID #<u>332+</u>

Stream Morphology: Upstream View Physical Dimensions: Width (ft): Length (ft); Avg. Depth (ft): ☐ Riffle Max. Depth (ft): Length (ft): Run Width (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): ☐ Pool Avg. Depth (ft): Max. Depth (ft): ☐ Flow Estimated (ft<sup>3</sup>/sec): Present? □ Yes Downstream View Physical Dimensions: Width (ft): Length (ft): Avg. Depth (ft): ☐ Riffle Max. Depth (ft): Width (ft): 🖊 Run Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): □ Pool Avg. Depth (ft): Max. Depth (ft): Estimated (ft<sup>3</sup>/sec): No ☐ Flow Present? Substrate\*: (These values should add up to 100%.) % Cobble % Gravel % Sand % Silt (OO % Mud/Clay % Bedrock Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics\*: (Mark all that apply.) Odor: □ Sewage ☐ Musky ☐ Chemical □ None Other: Color: ☐ Clear Green ☐ Gray □ Milky ☐ Other: Bottom Deposit: ☐ Sludge □ Solids ☐ Fine sediments □ None Other: Surface Deposit: □ Oil ☐ Scum ☐ Foam ☐ None Other: Comments: Please attach additional comments (including information from interviews) to this form. \*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. Signed: Position: <u>*Ē.* 5.</u> 1 Organization: MONR



1264\_001\_DS



#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

THE PROPERTY OF THE PROPERTY O	321-1264		Site Location	Description: 02	
Site GPS Coordinates:	34. 73057	24	East B	ranch + 215th	
Date & Time: 6/24/			Facility Nam	e: Handen ille beute P	The Will A . David
Personnel: M. Cunn			Permit Number: 10 00280 70, 100 FR 111 Bank-29 Co.  Weather Conditions for Past 7 days: Hot + Humicl		
Current Weather Condition	ions: 75%+ C	bo-			
Photo Ids: Upstream:	7. 8. 9 Dos		11,12	ther:	+Ramict
	<del></del>		<u> </u>	<u></u>	
Uses Observed*:	<del></del>		· · · · · · · · · · · · · · · · · · ·		
☐ Swimming	Skin diving	sct	JBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boa	ting	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	□ Fish		None of the above	☐ Other:
Surrounding Condition	S*: (Mark all that p	promote or imp	ede recreationa	I uses. Attach photos of evide	nce or unusual
Surrounding Condition items of interest.)	S*: (Mark all that p	<u></u>			
items of interest.)		<u></u>	servation lands		☐ Campgrounds
City/county parks	☐ Playgrounds	☐ MDC con	servation lands	☐ Urban areas	
□ City/county parks □ Boating accesses □ No trespass sign	☐ Playgrounds ☐ State parks Fence	☐ MDC con	servation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds
☐ City/county parks ☐ Boating accesses	☐ Playgrounds ☐ State parks Fence	☐ MDC con ☐ National f	servation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds
□ City/county parks □ Boating accesses □ No trespass sign  Evidence of Human Use	☐ Playgrounds ☐ State parks Fence	☐ MDC con ☐ National f ☐ Steep slop	servation lands orests es	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds ☐ Stairs/walkway

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Upstream Viev □ Riffle Widt	ı (ft):		Length (ft):		Avg. Depth	(ft);	Max. Depth	(ft):	
	ı (ft):	<del></del>	Length (ft):		Avg. Depth		Max, Depth	•	
	ı (ft):	10	Length (ft):		Avg. Depth		Max. Depth	····	2
Flow Prese	···	☐ Yes	<b>⊅</b> 85№		Estimated (f				
Downstream V	iew P	hysical	Dimensions:						
	(ft):	11/01011	Length (ft):		Avg. Depth	(ft):	Max. Depth	(ft):	
	n (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth	(ft):	
Pool Widt	ı (ft):	60	Length (ft):	120	Avg. Depth	(ft): 4	Max, Depth	(ft):	7
<b>2</b> Flow Prese		☐ Yes	No No		Estimated (f	t³/sec):			····
フク % Cobb uatic Vegetati	le	9 note amor		O % Sa		€% Silt	<b>Z</b> <i>O</i> % Mud/Clay		Ø % Bedrock
uatic Vegetation No Banks Mo	le  /C on*: (1 e+/y istics*	note amou	unt of vegetation  Covere	O % Sa or algal gro	owth at the asse	essment site	)		Ø % Bedrock
70 % Cobi quatic Vegetati ~NO Banks Mo	istics	grad : (Mark Sewage	all that apply.)	O % Sa or algal gre	owth at the asse	essment site	) □ Other:		Ø % Bedrock
70 % Cobi	istics*	9 mote amou	all that apply.)  Musky	O % Sa or algal grv	owth at the asse hemical	essment site	)		Ø % Bedrock
yuatic Vegetation No Banks Modater Character Odor:	istics*	9 % note amore (Mark Sewage Clear Studge	all that apply.)	O % Sa or algal grv	hemical tray	essment site	☐ Other:		Ø % Bedrock



1264\_002\_DS



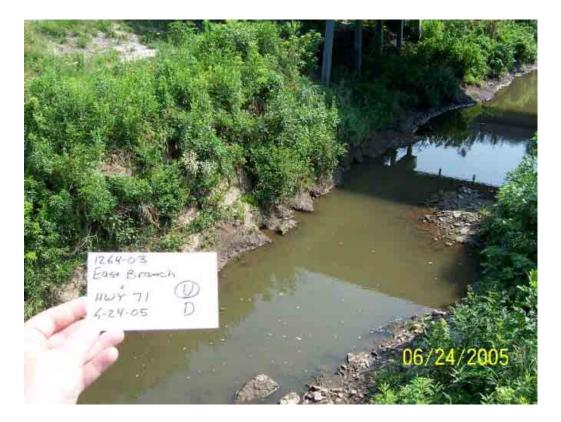
#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	64		Site Location	n Description: 03				
Site GPS Coordinates:	4.38 69008 V.094 42720	}	East &	Branch + Huy 71				
Date & Time: 6/24			Facility Nan	ne: Hamisomuille Luture Pu	Maria Maria			
Personnel: M. Cun			Facility Name: Harrisonville WunF, Plasary H: II Bank 29/10 Permit Number: MO0028070 . MO012072 3					
	Current Weather Conditions: 86% + Clear			Permit Number: M00028070, M00120723  Weather Conditions for Past 7 days: Hot Humid				
Photo Ids: Upstream:	3.14.15 Do	wnstream: /6, 1	7. IK	Other:	V/AM/CC			
				<u> </u>				
Uses Observed*:		<del></del> .	<del></del>					
☐ Swimming	☐ Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	☐ Boa	ting	☐ Wading	☐ Rafting			
☐ Hunting	☐ Trapping	☐ Fish		None of the above oto-documentation of evidence	☐ Other:			
Surrounding Condition	ns*: (Mark all that )	promote or imp	ede recreation	al uses. Attach photos of evide	ence or unusual			
Surrounding Condition items of interest.)	ns*: (Mark all that p		ede recreation		ence or unusual  □ Campgrounds			
items of interest.)			servation land		··			
items of interest.)  ☐ City/county parks	☐ Playgrounds	☐ MDC con	servation land	s Urban areas	☐ Campgrounds ☐ Stairs/walkway			
☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con	servation land	s Urban areas  Nature trails	☐ Campgrounds ☐ Stairs/walkway			
☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con ☐ National f	servation land	s Urban areas  Nature trails	☐ Campgrounds ☐ Stairs/walkway			
☐ City/county parks ☐ Boating accesses ☐ No trespass sign  Evidence of Human Us	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con ☐ National f ☐ Steep slop	servation land: orests	S Urban areas  Nature trails  Other: None	☐ Campgrounds ☐ Stairs/walkway			

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Upstream ☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (f	i);	Max. Depth (	(ft):
	Width (ft):	15	Length (ft):	Z00	Avg. Depth (f	0: Z	Max. Depth (	(ft): <b>5</b>
	Width (ft):		Length (ft):		Avg. Depth (f		Max. Depth (	<del></del> .
Flow	Present?	<b>⊠</b> Yes	□ No		Estimated (ft <sup>3</sup>	/sec): 1/2	fi3/see.	
Downstrea	m View I	Physical .	Dimensions:					
☐ Riffle	Width (ft):		Length (ft):		Avg. Depth (f	t):	Max, Depth (	(ft):
<b>K</b> Run	Width (ft):	<i>Z</i> 5	Length (ft):	100	Avg. Depth (f	ı): <b>4</b>	Max, Depth (	ft): 6
☐ Pool	Width (ft):		Length (ft):	••	Avg. Depth (f	t):	Max. Depth (	ft):
Flow	Present?	¥Yeş	□ No		Estimated (ft <sup>3</sup>	(sec): 1/4	f+3/goc	
60 %	Cobble	10 %	dd up to 100%.) Gravel	∕⁄ % San		% Silt	5 % Mud/Clay	
quatic Vege Minima Banks	Cobble station*:	note amou e gro grass	int of vegetation  whh	or algal gro	wth at the asses		5 % Mud/Clay	Ø % Bedrock
60 %	cteristics	note amou e gro grass	int of vegetation  whh	or algal grov	with at the asses		✓ % Mud/Clay	Ø % Bedrock
guatic Vege Minima Banks  /ater Chara	ctation*:	note amou	int of vegetation  wh  brush  all that apply.)	or algal grov	with at the asses	sment site)		♦ % Bedrock
quatic Vege Minima Banks /ater Chara Odor:	ctation*:	note amou  grass  *: (Mark a	int of vegetation  why  all that apply.)  Musky	covere	with at the asses	None	□ Other:	Ø % Bedrock
guatic Vege Minima Banks  /ater Chara Odor: Color:	cteristics	note amou  grass  *: (Mark a  Sewage	int of vegetation  whh  all that apply.)   Musky  Green	or algal grov	with at the asses	None  Milky  None	□ Other:	♦ % Bedrock



1264\_003\_DS





#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 12	264		Site Location	Description: <b>04</b>		
Site GPS Coordinates:			East Bra	mch + 251 st		
Date & Time: 6/24	105 € 11:	00			same Hill Bow K-2911	
Personnel: M. Cun			Permit Number: MO 002 80 70 MOU 17 0 72 3			
Current Weather Condi			Permit Number: MO 002 80 70 MOD 120 723  Weather Conditions for Past 7 days: Hot J. Humid			
Photo Ids: Upstream: — Downstream:			Ot	ner:	- C - C - C - C - C - C - C - C - C - C	
es Observed*:			<u> </u>			
□ Swimming	☐ Skin diving	- G \$0	CUBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	☐ Be	pating	☐ Wading	☐ Rafting	
☐ Hunting	☐ Trapping	□ Fi	shing	☐ None of the above	Other:	
	Bridge naccessa			o-documentation of evidence	of recreational uses, etc	
rrounding Condition	Bridge naccessa	Oc ble b	ut - vehic			
-	Bridge naccessa	Oc. ble b	ut - vehic	de.		
rrounding Conditions of interest.)	Bridge naccessor us*: (Mark all that	Oc. ble b	Vehiconpede recreational	uses. Attach photos of evide	nce or unusual	
rrounding Conditions of interest.)	Bridge naccessar us*: (Mark all that	Do	vehice  pede recreational  conservation lands  I forests	uses. Attach photos of evide	nce or unusual	
rrounding Conditions of interest.)  City/county parks  Boating accesses	Bridge  naccessor  us*: (Mark all that  Playgrounds  State parks	promote or in	vehice  pede recreational  conservation lands  I forests	uses. Attach photos of evide  Urban areas  Nature trails	nce or unusual	
rrounding Conditions of interest.)  City/county parks  Boating accesses  No trespass sign	Bridge  naccessor  us*: (Mark all that  Playgrounds  State parks	promote or in  MDC co	vehice  pede recreational  conservation lands  I forests	uses. Attach photos of evide  Urban areas  Nature trails	nce or unusual	
rrounding Conditions of interest.)  City/county parks Boating accesses No trespass sign	Bridge  naccessor  us*: (Mark all that  Playgrounds  State parks  Fence	DC ble b	Vehice  pede recreational  conservation lands  forests  opes	uses. Attach photos of evide  Urban areas  Nature trails  Other:	nce or unusual  □ Campgrounds □ Stairs/walkway	

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□ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Flow Present? □ Yes □ No Estimated (ft³/sec):    Strate*: (These values should add up to 100%.)   Strate*: (These values should a	□ Riffle Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft)	:
Flow   Present?   Yes   No   Estimated (ft²/sec):	□ Run Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft)	:
Downstream View Physical Dimensions:  Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  Flow Present?	☐ Pool Width	(ft):	Length (ft):	Avg. Depth (ft):		Max. Depth (ft):	
□ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  □ Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  □ Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  □ Flow Present? □ Yes □ No Estimated (ft³/sec):  □ Strate*: (These values should add up to 100%.)  □ Schrate*: (These values should add up to 100%.)  □ Cobbie □ % Gravel □ % Sand □ % Silt □ % Mud/Clay □ % Bedulatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)  ■ Sewage □ Musky □ Chemical □ None □ Other:  □ Color: □ Clear □ Green □ Gray □ Milky □ Other:  □ Sourface Deposit: □ Sludge □ Solids □ Fine sediments □ None □ Other:  Surface Deposit: □ Oil □ Scum □ Foam □ None □ Other:  ■ Munents: Please attach additional comments (including information from interviews) to this form.  Is information is not to be used solely for removal of a recreational use designation but rather is to provide a more prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a sion on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  ■ We undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA asheet is true and accurate.	☐ Flow Presen	t? 🔲 Yes	□ No	Estimated (t	ft³/sec):		
Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):  Strate*: (These values should add up to 100%.)  **Scrate*: (These values should add up to 100%.)  **Cobble	Downstream_Vi	w Physical	Dimensions:				
Pool Width (ft):   Length (ft):   Avg. Depth (ft):   Max. Depth (ft):     Flow   Present?   Yes   No   Estimated (ft)/sec):     Strate*: (These values should add up to 100%.)     % Cobble   % Gravel   % Sand   % Silt   % Mud/Clay   % Bed     uatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)     ter Characteristics*: (Mark all that apply.)     Odor:   Sewage   Musky   Chemical   None   Other:     Color:   Clear   Green   Gray   Milky   Other:     Bottom Deposit:   Sludge   Solids   Fine sediments   None   Other:     Surface Deposit:   Oil   Scum   Foam   None   Other:     muents: Please attach additional comments (including information from interviews) to this form.     is information is not to be used solely for removal of a recreational use designation but rather is to provide a more prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a sion on the recreation use analysis but may point to conditions that need further analysis or that effect another use.     The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA asheet is true and accurate.	□ Riffle Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft)	:
Flow   Present?   Yes   No   Estimated (ft <sup>3</sup> /sec):   Strate*: (These values should add up to 100%.)   % Cobble   % Gravel   % Sand   % Silt   % Mud/Clay   % Bedinatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)    ter Characteristics*: (Mark all that apply.)   Odor:	□ Run Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft)	:
**Strate*: (These values should add up to 100%.)  **Cobble	□ Pool Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft)	;
% Cobbie  % Gravel  % Sand  % Silt  % Mud/Clay  % Bedinatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)  ter Characteristics*: (Mark all that apply.)  Odor:	☐ Flow Presen	? □ Yes	□ No	Estimated (t	ît³/sec):		
% Cobbie % Gravel % Sand % Silt % Mud/Clay % Bedinatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)  ter Characteristics*: (Mark all that apply.)  Odor: Sewage Musky Chemical None Other:  Color: Glear Green Gray Milky Other:  Bottom Deposit: Sludge Solids Fine sediments None Other:  Surface Deposit: Oil Scum Foam None Other:  numents: Please attach additional comments (including information from interviews) to this form.  s information is not to be used solely for removal of a recreational use designation but rather is to provide a more prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a sition on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA asheet is true and accurate.	strate*: (These	values should :	add up to 100%.)				
ter Characteristics*: (Mark all that apply.)  Odor:		<del></del>		% Sand	% Silt	% Mud/Clay	% Bedrock
Color:				algal growth at the asso	essment site)		
Surface Deposit: Oil Oscum Foam None Other:  muents: Please attach additional comments (including information from interviews) to this form.  is information is not to be used solely for removal of a recreational use designation but rather is to provide a more prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a sion on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA asheet is true and accurate.	ter Characteris	tics*: (Mark	all that apply.)			☐ Other:	
nments: Please attach additional comments (including information from interviews) to this form.  Is information is not to be used solely for removal of a recreational use designation but rather is to provide a more prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a sion on the recreation use analysis but may point to conditions that need further analysis or that effect another use.  The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA asheet is true and accurate.	ter Characteris Odor:	tics*: (Mark	all that apply.)  ☐ Musky	☐ Chemical	□ None		
s information is not to be used solely for removal of a recreational use designation but rather is to provide a more prehensive understanding of water conditions. Consequently, this information is not intended to directly influence a aion on the recreation use analysis but may point to conditions that need further analysis or that effect another use. The undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA asheet is true and accurate.	ter Characteris Odor: Color:	tics*: (Mark	all that apply.)  ☐ Musky ☐ Green	☐ Chemical ☐ Gray	□ None □ Milky	☐ Other:	
rade Mulian C. ( ) - 1 Pater 6/24/05	ter Characteris Odor: Color: Bottom Deposit:	tics*: (Mark  Sewage  Clear  Sludge	all that apply.)  ☐ Musky ☐ Green ☐ Solids	☐ Chemical ☐ Gray ☐ Fine sediments	□ None □ Milky □ None	☐ Other:	
ganization: MONR / hcko Position: E.S.	ter Characteris Odor: Color: Bottom Deposit: Surface Deposit: numents: Please is information is no prehensive understa sion on the recreation asheet is true a	tics*: (Mark  Sewage  Clear  Sludge  Oil  attach additite to be used soinding of water on use analysis hereby affi	all that apply.)  Musky Green Solids Scum ional comments fely for removal of a renditions. Conse- but may point to co-	☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam (including informate recreational use designmently, this information differently that need further than the conditions that need further than	☐ None ☐ Milky ☐ None ☐ None ☐ ion from intendent is not intendent intenden	Other: Other: Other: or is to provide a more ed to directly influence hat effect another use.	: a

#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Site GPS Coordinates:	64		Site Location Description: 05			
ſ <u></u>	38,62767	7	Eas+ B	ranch + 269th		
Date & Time: 6/24	•				W.H. 291 A	
	ing ham		Permit Number: No 0026070 M00120723			
Current Weather Conditio		ar	Permit Number: Mo 0026070 , M00120723  Weather Conditions for Past 7 days: Hot + Humid.			
Photo Ids: Upstream: 19.	20,21 Dos	wnstream: ZZ	23. 24 Oth		· //coppi ot:	
		-	<del></del>			
ses Observed*:		<u> </u>	<del></del>	<del></del>		
☐ Swimming	☐ Skin diving	□ sct	JBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	☐ Boa	ting	☐ Wading	☐ Rafting	
☐ Hunting	☐ Trapping	☐ Fish		None of the above o-documentation of evidence	<del>Mother:</del>	
arrounding Conditions	*: (Mark all that p	promote or imp	ede recreational	uses. Attach photos of evide	nce or unusual	
nrrounding Conditions ms of interest.)  City/county parks	*: (Mark all that p	<del> </del>	ede recreational	uses. Attach photos of evide		
ms of interest.)  City/county parks		<del> </del>	servation lands	<del></del>	☐ Campgrounds	
☐ Boating accesses	☐ Playgrounds	☐ MDC con	servation lands	☐ Urban areas	☐ Campgrounds ☐ Stairs/walkway	
ms of interest.)  ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con	servation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds ☐ Stairs/walkway	
ms of interest.)  City/county parks  Boating accesses  No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con ☐ National (	servation lands	☐ Urban areas ☐ Nature trails	☐ Campgrounds ☐ Stairs/walkway	

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

pstream View □ Riffle Width		Length (ft):		Avg. Depth	ft):		Max. Depth	(ft):	<del></del> -
Run Width	(ft): 40	Length (ft):	80	Avg. Depth (	ft): 4		Max. Depth	(ft):	8
□ Pool Widtl	ı (ft):	Length (ft):		Avg. Depth (	ft);		Max. Depth	(ft):	
Flow Prese	nt? 🔀Yo	s 🗆 No		Estimated (fl	³/sec): [	f+3/	see.		
ownstream V	iew Physica	l Dimensions:							
Riffle Width	(ft);	Length (ft):		Avg. Depth (	ft):		Max. Depth	(ft):	
<b>X</b> Run Width	(f): 25	Length (ft):	50	Avg. Depth (	ft): 3		Max. Depth	(ft):	4
□ Pool Width	(ft):	Length (ft):		Avg. Depth (	ft):		Max. Depth	(ft):	
Flow Preser	nt? 🗶 Ye	s _ □ No		Estimated (ft	)/sec);	11/2	f13/500	<u>.                                    </u>	
stone show	n*; (note am	% Gravel   ount of vegetation o		owth at the asse	% Silt		% Mud/Clay		2 % Bedrock
atic Vegetatio	n*: (note am	ount of vegetation on the cover	or algal gro	owth at the asse			% Mud/Clay		9 % Bedrock
atic Vegetation none Obserbranks pa	n*: (note am	ount of vegetation of vegetati	or algal gro	owth at the asse	ssment site				9 % Bedrock
atic Vegetation none Obserbranks pa	n*: (note am  red  stics*: (Mar	k all that apply.)	or algal gro	owth at the asse	ssment site		Other:		9 % Bedrock
er Characteri Odor: Bottom Deposit: Surface Deposit:	n*: (note am  stics*: (Mar  Sewage  Clear  Sludge	k all that apply.)  Musky	or algal gro	hemical ray ne sediments	None  None	)	Other: Other: Other: Other:		



1264\_005\_DS



#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: /2	264		Site Location D	Description: 06		
Site GPS Coordinates:	H. 38. 69331 U.094.38902		East Bo	anch + 289th		
Date & Time: 6/24					manuel Will Burer - 200	
Personnel: M. Cun	ningham		Permit Number: Harrisonville work, Pleasant Hill Bank-29 Permit Number: H0002870, M00120723			
Current Weather Condi	tions: 909-60	lear	Weather Conditions for Past 7 days: Hot + Humid			
Photo Ids: Upstream:	25,26,27 Do	vnstream: 2	\$ 2 9 30 Othe		· Manual or	
			<b>1</b>	·		
ses Observed*:						
☐ Swimming	☐ Skin diving	□ SC	UBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	□Во	ating	☐ Wading	☐ Rafting	
☐ Hunting	☐ Trapping	☐ Fis	hing	None of the above	☐ Other:	
Describe: (include num	ber of individuals red	reating, frequ	ency of use, photo	-documentation of evidence	of recreational uses, etc.)	
				uses. Attach photos of evidence		
urrounding Conditio		promote or im				
urrounding Conditio	ns*: (Mark all that )	promote or im	spede recreational to	uses. Attach photos of evide		
urrounding Conditions of interest.)	ns*: (Mark all that	promote or im	ipede recreational to inservation lands forests	uses. Attach photos of evide	nce or unusual	
urrounding Conditions of interest.)  City/county parks Boating accesses	ns*: (Mark all that principle of the principle of the parks of the principle of the princip	promote or im  MDC co	ipede recreational to inservation lands forests	uses. Attach photos of evide  Urban areas  Nature trails	nce or unusual	
urrounding Conditions of interest.)  ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	ns*: (Mark all that principle of the principle of the parks of the principle of the princip	promote or im  MDC co  National	ipede recreational to inservation lands forests	uses. Attach photos of evide  Urban areas  Nature trails	nce or unusual	
rrounding Conditions of interest.)  ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	ns*: (Mark all that     Playgrounds     State parks     Fence	promote or im  MDC co  National  Steep slo	nservation lands forests	uses. Attach photos of evide  Urban areas  Nature trails  Other:	nce or unusual  □ Campgrounds □ Stairs/walkway	

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

	hology: /iew Physical Di	imensions:				
□ Riffle W	Width (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (fi	<u>.</u> :):
Run V	Width (ft): 20	Length (ft);	150 Avg. Depth	(ft): Z	Max. Depth (fi	): <del>5</del>
□ Pool W	Width (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (fi	 :):
Flow P	resent? 🔏 Yes	□ No	Estimated (	ft³/sec): Z¹/z	f+3/500	
Downstream	n View Physical	Dimensions:				
	Width (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft	):
	Vidth (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft	
Pool W	Width (ft): 10	Length (ft):	30 Avg. Depth	(ft): <u>3</u>	Max. Depth (ft	): 6
	Present? X Yes	□ No	Estimated (	ft³/sec): / <del>{}</del>	/sec.	
uhotuotata (T		-11 1000()		•		
70 % C	hese values should cobble 10 %		9 % Sand	0 % Silt Z	2% Mud/Clay	Ø % Bedrock
Odor:	teristics*: (Mark	all that apply.)	☐ Chemical	None	Other:	
Color:	□ Clear	☐ Green	Ø(Gray	☐ Milky	Other:	
Bottom Depos		□ Solids	Fine sediments	□ None	Other:	
Surface Depo:		□ Scum	□ Foam	None	☐ Other;	
	ease attach addit	ional comments	including information	ion from interv	iesse) to this for	
This information omprehensive und ecision on the rec	is not to be used sol derstanding of water creation use analysis	lely for removal of a r conditions. Conse but may point to co	quently, this information distinct the second secon	on i her	ion but rather it is not intended analysis or tha	ion but rather is to provide a more is not intended to directly influence analysis or that effect another use at all information reported



1264\_006\_DS



#### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: /	264		Site Location Description: 07				
Site GPS Coordinates: 6/24/05 @ 14:15  Personnel: M. Cunning ham			East Branch + 307# Facility Name: Harrisonville WarF, Account Will Bank-zaid				
			Current Weather Cond	itions: 95%C	lear	Permit Number: MO 0026070, M00120723  Weather Conditions for Past 7 days: Ho+ + Hum: el	
Photo Ids: Upstream:	31,32,33 Do	wnstream: 34	1, 35, 36 Othe	er: 37.38			
	,						
Jses Observed*:	T =			<u></u>			
☐ Swimming	☐ Skin diving	<u> </u>	UBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	☐ Boa	ating	☐ Wading	Rafting		
☐ Hunting	☐ Trapping	☐ Fish	ning	None of the above	Other:		
	ns*: (Mark all that	promote or imp	pede recreational u	uses. Attach photos of evide	nce or unusual		
Surrounding Condition tems of interest.)	Ons*: (Mark all that	· -	pede recreational u	uses. Attach photos of evide	1		
tems of interest.)		· -	servation lands	T	☐ Campgrounds		
cems of interest.)	☐ Playgrounds	☐ MDC con	servation lands	☐ Urban areas ☐ Nature trails ☐ Cohon S mall Pa	☐ Campgrounds ☐ Stairs/walkway		
City/county parks  Boating accesses	☐ Playgrounds ☐ State parks Fence	☐ MDC con	servation lands	☐ Urban areas ☐ Nature trails ☐ Cohon S mall Pa	☐ Campgrounds ☐ Stairs/walkway		
Boating accesses  No trespass sign	☐ Playgrounds ☐ State parks Fence	☐ MDC con ☐ National :  Steep slop	servation lands	☐ Urban areas ☐ Nature trails ☐ Cohon S mall Pa	☐ Campgrounds ☐ Stairs/walkway		
City/county parks  Boating accesses  No trespass sign	☐ Playgrounds ☐ State parks Fence	MDC con National	servation lands forests	Urban areas  Nature trails  Other: Small	☐ Campgrounds ☐ Stairs/walkway		

<sup>\*</sup>Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morpholo <u>Upstre</u> am View		mensions:					
☐ Riffle Width	1 (ft):	Length (ft):	Avg	Depth (ft):		Max. Depth (fi	t):
Run Width	n (ft): 15	Length (ft):	150 Avg	Depth (ft):	3	Max. Depth (fi	): .5
☐ Pool Width	ı (ft):	Length (ft):	Avg	Depth (ft):		Max. Depth (fi	i):
Flow Presen	nt? 🗶 Yes	□ No	Estir	nated (ft³/sec	): 1/2	ft3/sec.	
Downstream Vi	iew Physical	Dimensions:					
□ Riffle Width	ı (ft):	Length (ft):	Avg	Depth (ft):		Max. Depth (ft	):
Run Width	n(ft): 25	Length (ft):	150 Avg	Depth (ft):	4	Max. Depth (ft	): 6
□ Pool Width	v (ft):	Length (ft);	Avg	Depth (ft):		Max. Depth (ft	):
Flow Preser	nt? <b>Ż</b> ≪Yes	□ No	Estir	nated (ft³/sec	): 1/2	G3/sec	
Aquatic Vegetatio							
Hinimal Banks mo	oth grass		over . Hem	y trees	alon	banks.	
Minimal	oth grass		Chemica		None	banks.	
Hinimal Banks mo	stics*: (Mark a	all that apply.)		1 🐹			
Minimal Banks mo Water Characteri Odor:	stics*: (Mark a	all that apply.)	☐ Chemica	ı <b>X</b>	None	Other:	
Water Characteri Odor: Color: Bottom Deposit: Surface Deposit:	stics*: (Mark a  Sewage  Clear  Sludge	all that apply.)	☐ Chemica ☐ Gray ☑ Fine sedi	1 E	None Milky None	☐ Other: ☐ Other: ☐ Other: ☐ Other:	
Water Characteri Odor: Color: Bottom Deposit:	stics*: (Mark a  Sewage  Clear  Sludge  Oil  attach addition to be used sole anding of water ion use analysis in the control of the control o	all that apply.)    Musky   Screen   Solids   Scum   Onal comment   bly for removal of conditions. Combut may point to	☐ Chemica ☐ Gray ☐ Foam  S (including in: f a recreational us sequently, this inf conditions that ne t of my knowle	ments   formation formation is need further an	None Milky None None rom interior intender alysis or the contraction of the contraction o	Other: Other: Other: Other: Other: rviews) to this for is to provide a more of to directly influence that effect another use	e a c a



1264\_007\_DS





1264\_007

